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1987

Nebraska Summary: S009-S010 Massey Ferguson 3060

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SUMMARY OF OECD TESTS 1063 & 1064—NEBRASKA SUMMARY 009/010

MASSEY FERGUSON 3060 DIESEL (2WD & FWA)

32 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Fuel Consumption			Mean Atmospheric Conditions
		Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	
MAXIMUM POWER AND FUEL CONSUMPTION					
Rated Engine Speed—(PTO speed—600 rpm)					
69.7 (52.0)	2201	4.42 (16.73)	0.446 (0.271)	15.79 (3.11)	
Standard Power Take-off Speed (540 rpm)					
67.2 (50.1)	1980	4.07 (15.39)	0.424 (0.258)	16.50 (3.25)	Air temperature
VARYING POWER AND FUEL CONSUMPTION					
69.7 (52.0)	2201	4.42 (16.73)	0.446 (0.271)	15.79 (3.11)	64°F (18°C)
60.5 (45.1)	2237	3.93 (14.86)	0.455 (0.277)	15.43 (3.04)	Relative humidity
45.9 (34.2)	2270	3.21 (12.17)	0.492 (0.299)	14.26 (2.81)	25%
30.3 (22.6)	2296	2.52 (9.54)	0.582 (0.354)	12.03 (2.37)	Barometer
15.6 (11.6)	2313	1.91 (7.24)	0.865 (0.526)	8.12 (1.60)	30.1" Hg (102.0 kPa)
.....	2331	1.37 (5.19)	

Maximum Torque 200.6 lb. ft (272.0 Nm) at 1288 RPM
Maximum Torque Rise 20.7%

DRAWBAR PERFORMANCE

FUEL CONSUMPTION CHARACTERISTICS

Power Hp (kW)	Drawbar pull (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Temp.°F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—22nd (4 SR) Gear									
55.5 (41.4)	3125 (13.9)	6.66 (10.71)	2097	2	0.547 (0.333)	12.79 (2.52)	176 (80)	63 (17)	30.2 (102.1)
75% of Pull at Maximum Power—22nd (4 SR) Gear									
45.5 (33.9)	2335 (10.4)	7.30 (11.74)	2247	2	0.572 (0.348)	12.28 (2.42)	176 (80)	63 (17)	30.2 (102.1)
50% of Pull at Maximum Power—22nd (4 SR) Gear									
32.0 (23.9)	1590 (7.1)	7.54 (12.14)	2280	1	0.654 (0.398)	10.71 (2.11)	176 (80)	63 (17)	30.2 (102.1)
75% of Pull at Reduced Engine Speed—23rd (3 SR + MP) Gear									
45.6 (34.0)	2335 (10.4)	7.32 (11.78)	2101	2	0.580 (0.353)	12.08 (2.38)	176 (80)	63 (17)	30.2 (102.1)
50% of Pull at Reduced Engine Speed—23rd (3 SR + MP) Gear									
32.5 (24.2)	1620 (7.2)	7.53 (12.12)	2123	1	0.635 (0.386)	11.01 (2.17)	176 (80)	63 (17)	30.2 (102.1)

Location of Test: CEMAGREF Division TSAN
BP 121-92164 Antony, France

Dates of Test: March to April, 1987

Manufacturer: MASSEY FERGUSON S.A. Ave-
nue Blaise Pascal 60026 Beauvais, France

FUEL AND OIL: Fuel No. 2 Diesel Cetane No. NA Specific gravity converted to 60°/60°F (15°/15°C) 0.843 Fuel weight 7.02 lbs/gal (0.841 kg/l) Oil SAE 10W30 Oil consumption for 10 hours NA Transmission and hydraulic lubricant B.P. Agrotans Front Axle lubricant SAE 90/140 gear oil

ENGINE: Make Perkins Diesel Type four cylinder vertical Serial No. LF 31152 U 113373 N Crankshaft lengthwise Rated engine speed 2200 Bore and stroke 3.975" × 5.00" (100.96 mm × 127 mm) Compression ratio 16 to 1 Displacement 248 cu in (4070 ml) Starting system 12 volt Lubrication pressure Air cleaner two paper elements and centrifugal precleaner Oil filter one full flow cartridge Fuel filter dual element with water trap Muffler underhood Exhaust vertical Cooling medium temperature control thermostat

CHASSIS: Type 2WD and FWA Serial No. U 290 026 Tread width rear 59.1" (1502 mm) to 83.3" (2117 mm) front 2WD - 54.4" (1383 mm) to 86.3" (2193 mm) FWA - 56.4" (1433 mm) to 75.7" (1923 mm) Wheel base 93.4" (2373 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio with partial (2) range operator controlled powershift Nominal travel speeds mph (km/h) first 1.07 (1.72) second 1.27 (2.05) third 1.35 (2.17) fourth 1.49 (2.40) fifth 1.61 (2.59) sixth 1.76 (2.83) seventh 1.89 (3.04) eighth 2.14 (3.44) ninth 2.23 (3.58) tenth 2.55 (4.10) eleventh 2.70 (4.35) twelfth 2.99 (4.81) thirteenth 3.22 (5.18) fourteenth 3.53 (5.68) fifteenth 3.78 (6.09) sixteenth 4.28 (6.88) seventeenth 4.46 (7.17) eighteenth 5.10 (8.21) nineteenth 5.41 (8.70) twentieth 5.99 (9.64) twenty-first 6.45 (10.38) twenty-second 7.06 (11.36) twenty-third 7.57 (12.18) twenty-fourth 8.57 (13.79) twenty-fifth 8.92 (14.36) twenty-sixth 10.22 (16.45) twenty-seventh 10.83 (17.43) twenty-eighth 12.00 (19.31) twenty-ninth 12.92 (20.79) thirtieth 14.14 (22.76) thirty-first 15.16 (24.40) thirty-second 17.88 (28.77) reverse 1.14 (1.83), 1.36 (2.18), 1.44 (2.31), 1.59 (2.56), 1.71 (2.76), 1.88 (3.02), 2.00 (3.23), 2.01 (3.24), 2.37 (3.82), 2.39 (3.85), 2.53 (4.08), 2.81 (4.52), 3.02 (4.86), 3.31 (5.32), 3.55 (5.71), 4.18 (6.73), 4.56 (7.34), 5.44 (8.75), 5.76 (9.28), 6.38 (10.27), 6.87 (11.06), 7.59 (12.21), 8.04 (12.94), 8.07 (12.99), 9.51 (15.31), 9.59 (15.43), 10.16 (16.35), 11.25 (18.11), 12.12 (19.50), 13.27 (21.35), 14.22 (22.88), 16.77 (26.98) Clutch single dry disc hydraulically actuated by foot pedal Brakes single wet disc hydraulically op-

MAXIMUM POWER IN SELECTED GEARS

12th (3 FT) Gear									
43.4 (32.4)	6315 (28.1)	2.58 (4.15)	2229	15	0.664 (0.404)	10.56 (2.08)	178 (81)	63 (17)	30.2 (102.1)
13th (2 FT + MP) Gear									
46.4 (34.6)	6135 (27.3)	2.83 (4.56)	2214	13	0.646 (0.393)	10.81 (2.13)	180 (82)	63 (17)	30.2 (102.1)
14th (4 FT) Gear									
48.8 (36.4)	5755 (25.6)	3.18 (5.12)	2214	9	0.631 (0.384)	11.12 (2.19)	174 (79)	63 (17)	30.2 (102.1)
15th (3 FT + MP) Gear									
49.6 (37.0)	5395 (24.0)	3.45 (5.55)	2198	9	0.628 (0.382)	11.17 (2.20)	176 (80)	63 (17)	30.2 (102.1)
16th (1 SR) Gear									
52.6 (39.2)	4970 (22.1)	3.97 (6.39)	2203	7	0.595 (0.362)	11.78 (2.32)	176 (80)	63 (17)	30.2 (102.1)
17th (4 FT + MP) Gear									
52.0 (38.8)	4700 (20.9)	4.15 (6.68)	2185	6	0.600 (0.365)	11.67 (2.30)	174 (79)	63 (17)	30.2 (102.1)
18th (2 SR) Gear									
54.2 (40.4)	4245 (18.9)	4.78 (7.69)	2167	5	0.569 (0.346)	12.28 (2.42)	176 (80)	63 (17)	30.2 (102.1)
19th (1 SR + MP) Gear									
53.9 (40.2)	3935 (17.5)	5.14 (8.27)	2167	5	0.579 (0.352)	12.13 (2.39)	176 (80)	63 (17)	30.2 (102.1)
20th (3 SR) Gear									
54.3 (40.5)	3570 (15.9)	5.70 (9.18)	2148	3	0.567 (0.345)	12.39 (2.44)	176 (80)	63 (17)	30.2 (102.1)
21st (2 SR + MP) Gear									
54.4 (40.6)	3300 (14.7)	6.18 (9.95)	2148	3	0.554 (0.337)	12.64 (2.49)	176 (80)	63 (17)	30.2 (102.1)
22nd (4 SR) Gear									
55.5 (41.4)	3125 (13.9)	6.66 (10.71)	2097	2	0.547 (0.333)	12.79 (2.52)	176 (80)	63 (17)	30.2 (102.1)
23rd (3 SR + MP) Gear									
54.4 (40.6)	2830 (12.6)	7.21 (11.61)	2097	2	0.551 (0.335)	12.74 (2.51)	178 (81)	63 (17)	30.2 (102.1)
24th (1 FR) Gear									
53.5 (39.9)	2425 (10.8)	8.27 (13.31)	2097	2	0.564 (0.343)	12.44 (2.45)	176 (80)	63 (17)	30.2 (102.1)

erated by two foot pedals that can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 1980 engine rpm and 1000 rpm at 2000 engine rpm **Unladen tractor mass** 2WD - 8420 lb (3820 kg), FWA - 8985 lb (4075 kg)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. The performance figures on this summary are taken from a test conducted under the OECD restricted standard test code procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report Nos. **1063 & 1064**, Nebraska Summary 009/010, August 14, 1992.

LOUIS I. LEVITICUS

Engineer-in-Charge

L. L. BASHFORD

R. D. GRISSE

K. VON BARGEN

Board of Tractor Test Engineers

TRACTOR SOUND LEVEL WITH CAB

	dB(A)
Maximum sound level	77.0
Bystander in 32th (4 FR + MP) gear	81.0

TIRES AND WEIGHT

Rear Tires	—No., size, ply & psi (kPa)
Front Tires	—No., size, ply & psi (kPa)
Height of Drawbar	
Static Weight	—Rear
	—Front
	—Total

Tested Without Ballast		
Front Wheel Assist	2WD	
Two 18.4-30; 6; 15 (100)	Two 18.4-30; 6; 15 (100)	
Two 12.4-24; 6; 16 (110)	Two 7.50-16; 8; 36 (250)	
19.3 in (490 mm)	29.5 in (750 mm)	
5745 lb (2605 kg)	5690 lb (2580 kg)	
3240 lb (1470 kg)	2730 lb (1240 kg)	
8985 lb (4075 kg)	8420 lb (3820 kg)	

The following performance figures apply to the tractor equipped with a Front Drive Axle.

DRAWBAR PERFORMANCE **FUEL CONSUMPTION CHARACTERISTICS** **(Front Drive Engaged)**

Power Hp (kW)	Drawbar pull (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Temp.°F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—22nd (4 SR) Gear									
57.9 (43.2)	3125 (13.9)	6.95 (11.19)	2134	3	0.533 (0.324)	13.15 (2.59)	180 (82)	50 (10)	30.0 (101.6)
75% of Pull at Maximum Power—22nd (4 SR) Gear									
46.7 (34.8)	2365 (10.5)	7.41 (11.92)	2244	2	0.557 (0.339)	12.59 (2.48)	180 (82)	50 (10)	30.0 (101.6)
50% of Pull at Maximum Power—22nd (4 SR) Gear									
32.3 (24.1)	1595 (7.1)	7.60 (12.23)	2273	1	0.659 (0.401)	10.61 (2.09)	180 (82)	50 (10)	30.0 (101.6)
75% of Pull at Reduced Engine Speed—23rd (3 SR + MP) Gear									
46.7 (34.8)	2340 (10.4)	7.49 (12.05)	2115	2	0.554 (0.337)	12.69 (2.50)	178 (81)	50 (10)	30.0 (101.6)
50% of Pull at Reduced Engine Speed—23rd (3 SR + MP) Gear									
32.5 (24.2)	1595 (7.1)	7.62 (12.27)	2126	1	0.631 (0.384)	11.12 (2.19)	176 (80)	50 (10)	30.0 (101.6)
MAXIMUM POWER IN SELECTED GEARS									
12th (3 FT) Gear									
50.2 (37.4)	7125 (31.7)	2.64 (4.25)	2207	15	0.631 (0.384)	11.12 (2.19)	183 (84)	50 (10)	30.0 (101.6)
13th (2 FT + MP) Gear									
51.8 (38.6)	6675 (29.7)	2.91 (4.68)	2192	9	0.608 (0.370)	11.47 (2.26)	180 (82)	50 (10)	30.0 (101.6)
14th (4 FT) Gear									
52.7 (39.3)	6115 (27.2)	3.23 (5.20)	2178	9	0.595 (0.362)	11.78 (2.32)	180 (82)	50 (10)	30.0 (101.6)
15th (3 FT + MP) Gear									
54.0 (40.3)	5780 (25.7)	3.50 (5.64)	2181	9	0.580 (0.353)	12.08 (2.38)	172 (78)	50 (10)	30.0 (101.6)
16th (1 SR) Gear									
55.3 (41.2)	5080 (22.6)	4.08 (6.56)	2167	4	0.561 (0.341)	12.49 (2.46)	180 (82)	50 (10)	30.0 (101.6)
17th (4 FT + MP) Gear									
55.5 (41.4)	4900 (21.8)	4.25 (6.84)	2156	5	0.559 (0.340)	12.54 (2.47)	176 (80)	50 (10)	30.0 (101.6)
18th (2 SR) Gear									
56.1 (41.8)	4250 (18.9)	4.95 (7.96)	2152	6	0.552 (0.336)	12.69 (2.50)	180 (82)	50 (10)	30.0 (101.6)
19th (1 SR + MP) Gear									
56.3 (42.0)	4000 (17.8)	5.28 (8.49)	2156	6	0.551 (0.335)	12.74 (2.51)	180 (82)	50 (10)	30.0 (101.6)
20th (3 SR) Gear									
56.5 (42.1)	3620 (16.1)	5.85 (9.42)	2145	5	0.546 (0.332)	12.84 (2.53)	176 (80)	50 (10)	30.0 (101.6)
21st (2 SR + MP) Gear									
57.3 (42.7)	3400 (15.1)	6.32 (10.17)	2137	3	0.539 (0.328)	12.99 (2.56)	180 (82)	50 (10)	30.0 (101.6)
22nd (4 SR) Gear									
57.9 (43.2)	3125 (13.9)	6.95 (11.19)	2134	3	0.533 (0.324)	13.15 (2.59)	180 (82)	50 (10)	30.0 (101.6)
23rd (3 SR + MP) Gear									
56.1 (41.8)	2815 (12.5)	7.48 (12.03)	2126	2	0.544 (0.331)	12.89 (2.54)	180 (82)	50 (10)	30.0 (101.6)
24th (1 FR) Gear									
55.7 (41.5)	2450 (10.9)	8.52 (13.71)	2123	2	0.546 (0.332)	12.84 (2.53)	176 (80)	50 (10)	30.0 (101.6)

THREE POINT HITCH PERFORMANCE (OECD STATIC TEST)

CATEGORY: II

Quick Attach: None

Maximum Force Exerted Through Whole Range:

5530 lbs (24.6 kN)

i) Opening pressure of relief valve:

NA

Sustained pressure of the open relief valve:

2725 psi (188 bar)

ii) Pump delivery rate at minimum pressure:

13.6 GPM (51.5 l/min)

iii) Pump delivery rate at maximum hydraulic power:

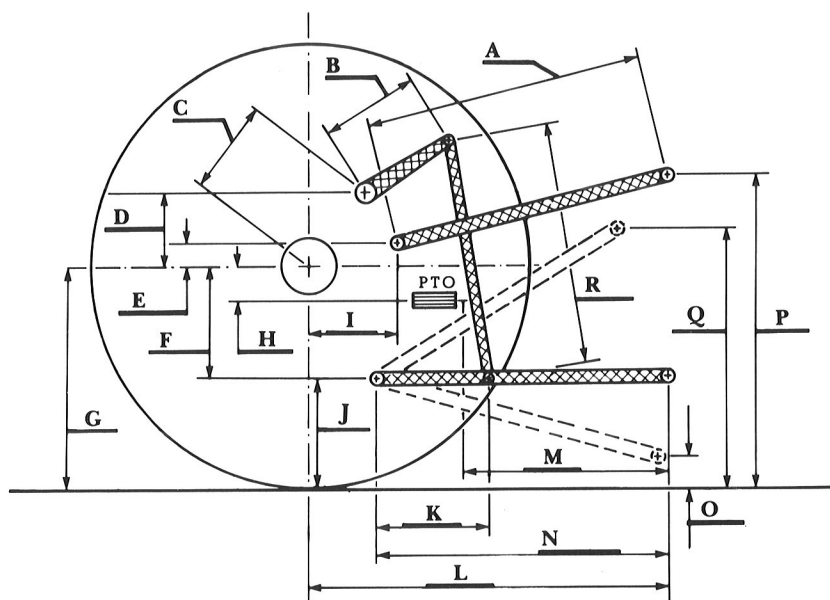
12.4 GPM (46.9 l/min)

Delivery pressure:

2540 psi (175 bar)

Power:

18.4 Hp (13.7 kW)



HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
A	25.6	650
B	10.5	266
C	13.9	354
D	13.0	330
E	4.7	120
F	10.2	260
G	28.3	720
H	1.7	43
I	15.0	382
J	18.1	460
K	22.4	568
L	40.9	1040
M	23.2	590
N	37.0	940
O	5.6	142
P	38.2	970
Q	28.9	735
R	29.3	745